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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 10/762,574 | 01/23/2004 | Teiichiro Umezawa | Q79566 | 3033 |
| 23373 7590 12/21/2006 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037 | | | EXAMINER | |
| | | | BERNATZ, KEVIN M | |
| | | | ART UNIT | PAPER NUMBER |
| WASHINGTON, De 20037 | | | 1773 | |
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UNITED STATES DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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| APPLICATION NO./ CONTROL NO. | FILING DATE | FIRST NAMED INVENTOR I PATENT IN REEXAMINATION | | ATTORNEY DOCKET NO. |
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DATE MAILED:

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Commissioner for Patents

20061127

The Examiner notes that this is a supplemental advisory action since the prior advisory has not been received by applicants. The Examiner has also included a response to the arguments, per applicants request in the phone call of December 18, 2006. Finally, as discussed in the above mentioned phone call, the Examiner notes that the amendments to the claims would appear to be ok to entere as being directed to better clarifying the claimed invention.

(MB

December 18, 2006

Advisory Action

| Application No. | Applicant(s) |
|------------------|----------------|
| 10/762,574 | UMEZAWA ET AL. |
| Examiner | Art Unit |
| Kevin M. Bernatz | 1773 |

Before the Filing of an Appeal Brief -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --THE REPLY FILED 13 November 2006 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. 1. X The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods: a) \square The period for reply expires <u>6</u> months from the mailing date of the final rejection. b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). **NOTICE OF APPEAL** 2. X The Notice of Appeal was filed on 13 November 2006. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a). **AMENDMENTS** 3. The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because (a) They raise new issues that would require further consideration and/or search (see NOTE below); (b) They raise the issue of new matter (see NOTE below); (c) They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or (d) They present additional claims without canceling a corresponding number of finally rejected claims. NOTE: _____. (See 37 CFR 1.116 and 41.33(a)). 4. The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324). 5. Applicant's reply has overcome the following rejection(s): 6. Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s). 7. X For purposes of appeal, the proposed amendment(s): a) X will not be entered, or b) Will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed: none. Claim(s) objected to: none. Claim(s) rejected: <u>1,2,5,6 and 11-22</u>. Claim(s) withdrawn from consideration: 3,4 and 8-10. AFFIDAVIT OR OTHER EVIDENCE 8. The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e). 9. The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1). 10. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached. REQUEST FOR RECONSIDERATION/OTHER 11. \times The request for reconsideration has been considered but does NOT place the application in condition for allowance because: M. Resin M. Bernatz, PhD See Continuation Sheet. 12. Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s). 13. \ Other: see altached Pro-90 December 18, 2006

Continuation of 11. does NOT place the application in condition for allowance because: applicants argue that the references of record do not disclose that the "principal" surface of the substrate possesses the claimed surface roughness (pages 6 - 8 of response). The Examiner respectfully disagrees.

The Examiner notes that the claims define the "principal surface" as the surface of the spacer layer "nearer to said second magnetic layer than said first magnetic layer", wherein the second magnetic layer is "farther from said substrate surface than said first magnetic layer" (claim 1). I.e. the "principal surface" is the upper surface of the spacer layer after it is deposited on the substrate: the claimed structure comprises: substrate/first magnetic/spacer/second magnetic layer. The Examiner deems that one of ordinary skill in the art would clearly recognize that when a layer is directed to possess a "surface roughness", it is the upper surface of the layer which is being further defined. As evidence, the Examiner notes that the most common way of achieving a certain roughness value is by polishing the upper surface of the layer after it's been deposited. One does not deposite a layer on a substrate and then somehow attempt to polish the bottom surface of the layer (i.e. the surface that is already formed directly adjacent the substrate). As such, the Examiner does not find applicants' arguments convincing since the limitation "principal surface" is simply referring to the upper surface of the spacer layer after deposition, which is the same as what the prior art teaches..

Notice of Non-Compliant Amendment (37 CFR 1.121)

| Application No. | Applicant(s) | |
|------------------|----------------|--|
| 10/762,574 | UMEZAWA ET AL. | |
| Examiner | Art Unit | |
| Kevin M. Bernatz | 1773 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

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| The amendment document filed on <u>13 November 20</u> equirements of 37 CFR 1.121 or 1.4. In order for the tem(s) is required. | | | |
| THE FOLLOWING MARKED (X) ITEM(S) CAUSE T 1. Amendments to the specification: A. Amended paragraph(s) do not inc B. New paragraph(s) should not be u C. Other | ude markings. | NT TO BE NON-COM | MPLIANT: |
| 2. Abstract:A. Not presented on a separate sheeB. Other | t. 37 CFR 1.72. | | • |
| 3. Amendments to the drawings: A. The drawings are not properly ide "Annotated Sheet" as required by B. The practice of submitting proposes showing amended figures, withou | 37 CFR 1.121(d). ed drawing correction has bee | en eliminated. Replac | ement drawings |
| ☐ C. Other ✓ 4. Amendments to the claims: ☐ A. A complete listing of all of the clair | | 137 Of IC 1.04 are rec | quireu. |
| □ B. The listing of claims does not included. □ C. Each claim has not been provided of each claim cannot be identified number by using one of the follow (Previously presented), (New), (New). □ D. The claims of this amendment pages. □ E. Other: See Continuation Sheet. | de the text of all pending clair with the proper status identifi. Note: the status of every claing status identifiers: (Original of entered), (Withdrawn) and (| er, and as such, the i aim must be indicated I), (Currently amende (Withdrawn-currently | ndividual status I after its claim d), (Canceled), amended). |
| 5. Other (e.g., the amendment is unsigned | or not signed in accordance w | rith 37 CFR 1.4): | |
| or further explanation of the amendment format rec | uired by 37 CFR 1.121, see N | √PEP § 714. | |
| TIME PERIODS FOR FILING A REPLY TO THIS N | OTICE: | · | |
| Applicant is given no new time period if the not filed after allowance. If applicant wishes to resu entire corrected amendment must be resubmit | bmit the non-compliant after-f | | |
| Applicant is given one month , or thirty (30) days correction, if the non-compliant amendment is or (including a submission for a request for continuamendment filed within a suspension period und Quayle action. If any of above boxes 1. to 4. are non-compliant amendment in compliance with 3 | ne of the following: a prelimina ed examination (RCE) under a ler 37 CFR 1.103(a) or (c), an checked, the correction requi | ary amendment, a no 37 CFR 1.114), a sup id an amendment filed | n-final amendment oplemental d in response to a |
| Extensions of time are available under 37 Camendment or an amendment filed in respon | | ompliant amendment | is a non-final |
| Failure to timely respond to this notice will a Abandonment of the application if the not filed in response to a Quayle action; or Non-entry of the amendment if the non-coamendment. | esult in: n-compliant amendment is a n ompliant amendment is a preli | | |
| Legal Instruments Examiner (LIE), if applicable | | Telephone No. | - jvus |

Continuation of 4(e) Other: claim 6 is missing language that appears to have been accidentally omitted.